

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
20 January 2005 (20.01.2005)

PCT

(10) International Publication Number
WO 2005/005621 A2

- (51) International Patent Classification⁷: **C12N 5/06**
- (74) Agent: STEINECKE, Peter; Müller Föttnner Steinecke, P.O. Box 31 01 40, 80102 München (DE).
- (21) International Application Number:
PCT/EP2004/007530
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (22) International Filing Date: 8 July 2004 (08.07.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
03015401.7 8 July 2003 (08.07.2003) EP
60/485,463 8 July 2003 (08.07.2003) US
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- (71) Applicant (for all designated States except US): AXIO-GENESIS AG [DE/DE]; Joseph-Stelzmann-Str. 50, 50931 Köln (DE).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): KOLOSSOV, Eugen [DE/DE]; Franz-Hitze-Strasse 1, 50672 Köln (DE). KETTENHOFEN, Ralf [DE/DE]; Ubierstr. 3, 53173 Bonn (DE). KOPP, Isabella [DE/DE]; Herbesthalerstr. 3, 50933 Köln (DE). BOHLEN, Heribert [DE/DE]; Auerstrasse 4, 50733 Köln (DE). SCHWENGBERG, Silke [DE/DE]; Dampfmühlenstr. 107, 52355 Düren (DE).
- Published:
— without international search report and to be republished upon receipt of that report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: NOVEL METHOD FOR THE PREPARATION OF EMBRYOID BODIES (EBs) AND USES THEREOF

(57) Abstract: Provided are means and methods for producing embryoid bodies (EBs) from multi- or pluripotent cells. In particular, a method of generating embryoid bodies (EBs) is described comprising agitation of a liquid suspension culture of multi- or pluripotent cells in a container until generation of cell aggregates, optionally diluting the suspension, and further agitation of the suspension until formation of EBs. Furthermore, the present invention relates to the use of the novel culturing method and EBs obtained thereby for a variety of applications including genomics, diagnostic assays, teratogenic/embryotoxicological and pharmacological assays as well as for the provision of tissue grafts.

WO 2005/005621 A2